



TANDBERG Intern MXP

Combining a TANDBERG Edge MXP with an IV stand, the TANDBERG Intern MXP is ideal for applications that require a portable, self-contained video solution, such as healthcare, emergency response, homeland security and manufacturing.



HD Superior video quality with the TANDBERG PrecisionHD Camera

DESIGN FEATURES

- 24" 16:9 Flat screen LCD display
- Slim mobile unit with shelf and basket for convenient connection of peripherals such as a laptop, medical imaging equipment and additional cameras
- Choice of Edge MXP with PrecisionHD camera or Set-Top with Wave camera
- Optional package includes additional storage and scope holder

APPLICATION FEATURES

- Join up to 4 video and 3 audio sites with embedded MultiSite functionality
- Share records or images live through one-step PC plug-in (PC Presenter) or LAN connection (PC SoftPresenter)
- View records or images and an off-site expert or audience simultaneously with DuoVideo and H.239 Dual Stream
- TANDBERG Expressway™ Technology

PERFORMANCE FEATURES

- Choice of Network: up to 512 kbps ISDN or external network (H.320)/2 Mbps IP (H.323 or SIP)
- Superior video quality incorporating the H.264 standard
- Standards-based embedded encryption to meet HIPAA compliance for patient confidentiality regardless of network type
- Tested and listed to UL 2601-1 and CSA 601.1 regulatory standards for approval in patient contact environments
- PC card slot for wireless LAN connection

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UNIT DELIVERED COMPLETE WITH:

Wireless remote control, TANDBERG PrecisionHD Camera, microphone and cables

BANDWIDTH

95 MXP:

H.320 up to 512 kbps
H.323 & SIP up to 2 Mbps

85 MXP:

H.320 up to 384 kbps
H.323 & SIP up to 1.1 Mbps

75 MXP:

H.320 up to 128 kbps
H.323 & SIP up to 768 kbps

FIREWALL TRAVERSAL

TANDBERG Expressway™ Technology
Auto NAT

H.460.18, H.460.19 Firewall Traversal

VIDEO STANDARDS

H.261, H.263, H.263+, H.263++ (Natural Video), H.264

VIDEO FEATURES

Native 16:9 Widescreen
Advanced Screen Layouts
Picture in Picture (PIP)
Picture outside Picture & Large POP
Side by Side
PC Zoom
Intelligent Video Management
Simultaneous videoconference & local PC mode
Local Auto Layout

VIDEO INPUTS (5 INPUTS)

1 x 9 PinDSUB: HD Main Camera
1 x MiniDin, S-video: auxiliary/document camera
1 x RCA/Phono, composite: document camera/aux
1 x RCA/Phono, composite: VCR
1 x DVI-I: PC
Input: 800 x 600 (@60, 72, 75, 85 Hz), 1024 x 768 (@60, 70, 75 Hz), 1280 x 720 (HD720P) (@50, 60 Hz), 1280 x 1024 @ 60 Hz
Extended Display Identification Data (EDID)

VIDEO OUTPUTS (4 OUTPUTS)

1 x MiniDin, S-video: main monitor
1 x RCA/Phono, composite: main monitor or VCR
1 x RCA/Phono, composite: dual monitor or VCR
1xDVI-1/XGA: main or second monitor
XGA Output
800 x 600 @ 75 Hz, 1024 x 768 @ 60 Hz, 1280 x 768 (WXGA) @ 60 Hz, 1280 x 720 (HD720p) @ 60 Hz
VESA Monitor Power Management

VIDEO FORMAT

NTSC, PAL, VGA, SVGA, XGA, W-XGA, SXGA and HD720p

LIVE VIDEO RESOLUTIONS

NATIVE NTSC:

400p (528 x 400 pixels)
4SIF (704 x 480 pixels), Digital Clarity
Interlaced SIF (ISIF 352 x 480 pixels), Natural Video
SIF (352 x 240 pixels)

NATIVE PAL:

448p (576 x 448 pixels)
4CIF (704 x 576 pixels), Digital Clarity
Interlaced CIF (ICIF 352 x 576 pixels), Natural Video
CIF (352 x 288 pixels)
QCIF (176 x 144 pixels)
SQCIF (128 x 96 pixels) decode only

NATIVE PC RESOLUTIONS:

XGA (1024 x 768)
SVGA (800 x 600 pixels)
VGA (640 x 480 pixels)

WIDE RESOLUTIONS:

w288p (512 x 288 pixels)
w448p (768 x 448 pixels)
w576p (1024 x 576 pixels)
w720p (1280 x 720 pixels)

STILL IMAGE TRANSFER

CIF, SIF, 4CIF (H.261 Annex D), 4SIF, VGA, SVGA, XGA

AUDIO STANDARDS

G.711, G.722, G.722.1, G.728, 64 bit & 128 bit MPEG4AAC-LD

AUDIO FEATURES

CD-Quality 20KHz Mono and Stereo
Telephone add-on via MultiSite
Two separate acoustic echo cancellers
Audio mixer
Automatic Gain Control (AGC)
Automatic Noise Reduction
Audio level meters
VCR ducking
Optional Stereo Package
Packet loss management
Active lip synchronization
GSM/Blackberry interference audio feature

AUDIO INPUTS (4 INPUTS)

2 x microphone, 24V phantom powered, XLR connector
1 x RCA/Phono, Line Level: auxiliary (or VCR Stereo L)
1 x RCA/Phono, Line Level: VCR/DVD (Stereo R)

AUDIO OUTPUTS (2 OUTPUTS)

1 x RCA/Phono, S/PDIF (mono/stereo) or Analogue
Line Level: main audio or Analogue Stereo L
1 x RCA/Phono, Line Level: VCR or Analogue Stereo R

FRAME RATES

30 frames per second @ 168 kbps and above
60 fields per second @ 336 kbps and above (Point-to-point)

DUAL STREAM

DuoVideo
H.239 dual stream
Dynamic bandwidth adjustment (H.323)
Available on H.323 & H.320
Available in MultiSite from any site (95 & 85 MXP only)

NETWORK FEATURES

Auto H.320/H.323 dialing
SIP
Downspeeding
Programmable network profiles
Intelligent Call Management
Maximum call length timer
Automatic SPID and line number configuration
(National ISDN, GR-2941-CORE)
SoftMux
H.323 Broadcast Mode
NATO standard KG194/KIV-7 encryptor support**
URI Dialing

MULTISITE FEATURES (95 & 85 MXP ONLY)

H.323/H.320/SIP/Telephony/VoIP in the same conference
Audio and Video Transcoding
Video rate matching from 56 kbps — maximum conference rate
CP4 and Voice Switched
Best Impression (Automatic CP Layouts)
H.264, Encryption, Digital Clarity
Dual Stream from any site
ISDN & IP Downspeeding and IPLR
MultiSite (H.243) Cascading on H.320 & H.323
Unicore H.243 Terminal Names
Dial In/Dial out
Chair control for host system
Snapshot of ongoing conference (JPEG)
Snapshot of ongoing DuoVideo/H.239 presentation (JPEG)
Separate welcome page for encrypted conferences
Conference rates up to 2.3 Mbps with optional bandwidth upgrade (1.5 Mbps is standard conference rate)
Up to 4 video and 3 audio sites
4 sites @ 768 kbps (+telephone calls)
Mix ISDN-BRI and IP up to maximum conference rate

EMBEDDED ENCRYPTION

H.320 and H.323 point-to-point and multipoint calls
Standards-based: H.233, H.234, H.235 v2&v3, DES and AES
NIST-validated AES
NIST-validated DES
Automatic key generation and exchange
Supported in Dual Stream & MultiSite

IP NETWORK FEATURES

IEEE 802.1x/EAP Network Authentication
H.235 Gatekeeper Authentication
DNS lookup for service configuration
Differentiated Services (DiffServ)
Resource Reservation Protocol (RSVP)
IP precedence
IP type of service (ToS)
IP adaptive bandwidth management (including flow control)
Auto gatekeeper discovery
Dynamic playout and lip-sync buffering
Intelligent Packet Loss Recovery (IPLR)
H.245 DTMF tones in H.323
Cisco CallManager integration using ECS
IP Address Conflict Warning
Date and Time support via NTP
Call Services

IPv6 NETWORK SUPPORT

Dual Stack IPv4 and IPv6 simultaneous support
Net service support on IPv6: Telnet, SSH, HTTP, HTTPS, ftp, SNMP, DNS, NTP, DHCP**
Media support on IPv6: H.323, SIP, Streaming

SECURITY FEATURES

Management via HTTPS and SSH
IP Administration Password
Menu Administration Password
Dialing Access code
Streaming password
H.243 MCU Password
VNC password
SNMP security alerts
Disable IP services
MD-5 Challenge
Network Settings protection
SIP Authentication via NTLM
SIP Authentication via Digest

NETWORK INTERFACES

4 x ISDN BRI (RJ-45), S-interface
1 x LAN/Ethernet (RJ-45) 10/100 Mbit
(LAN/DSL/cable modem)
1 x PC card slot (PCMCIA) for wireless LAN
1 x USB for future usage

WIRELESS LAN SUPPORT

Compliant with IEEE 802.11b, up to 11 Mbit
Support for 64/128 bit encryption (WEP)
Infrastructure or ad-hoc mode

ETHERNET/INTERNET/INTRANET CONNECTIVITY

TCP/IP, DHCP, ARP, FTP, Telnet, HTTP, HTTPS, SOAP and XML, MD-5 Challenge
SNMP Enterprise Management
Internal web server
Internal streaming server

OTHER MAJOR STANDARDS SUPPORTED

H.231, H.233, H.234, H.235 v2&v3, H.239, H.241, H.243, H.281, BONDING (ISO 13871), H.320, H.323, H.331
RFC 3261, RFC 2237, RFC 3264, RC 3311, RFC 3550, RFC 2032, RFC 2190, RFC 2429, RFC 3407

PRECISIONHD CAMERA

7 x zoom 1/3" CMOS +10°/-20° tilt +/- 90° pan
42° vertical field of view
72° total vertical field of view
70° horizontal field of view
250° total horizontal field of view
Focus distance 0.3m-infinity
1280 x 720 pixels progressive @ 30fps
Automatic or manual focus/brightness/whitebalance
Far-end camera control
15 near and far-end camera presets
Voice-activated camera positioning
Daisy-chain support (Visca protocol camera)

CLOSED CAPTIONING/TEXT CHAT

T.140 text chat available from Telnet, Web and User Interface

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:
PC Presenter (DVI-I, SXGA In)
PC SoftPresenter
Digital Clarity & Native Formats
Advanced Video Layouts
Streaming compatible with Cisco IP/TV, Apple QuickTime®, RealPlayer® v8 etc.

SYSTEM MANAGEMENT

Support for the TANDBERG Management Suite
Total management via embedded web server, SNMP, Telnet, SSH, FTP and SOAP
Remote software upload: via web server, ftp server or ISDN
1 x RS-232 local control and diagnostics
Remote control and on-screen menu system
External Services from TMS

DIRECTORY SERVICES

Support for Local directories (My Contacts), Corporate Directory and Global Directory
Unlimited entries using Server directory* supporting LDAP and H.350
Unlimited number for Corporate directory (through TMS)
400 number global directory
200 number local directory
16 dedicated MultiSite entries
Received Calls with Date and Time
Directories in Local Languages
Placed Calls with Date and Time
Missed Calls with Date and Time

16 SELECTABLE MENU LANGUAGES

Arabic, Simplified Chinese, Traditional Chinese, English, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Suomi, Swedish and Thai
Chinese, Korean and Japanese Input Method Editor
Import Custom Language through TMS

CUSTOMIZED WELCOME SCREEN AND COMPANY LOGO

Picture JPEG (logo.jpg): Recommended maximum size is 704x576 for Welcome Screen and 352x288 for Encryption Required Screen.

POWER

Auto-sensing power supply
100-250 VAC, 50-60 Hz
40 watts max.

OPERATING TEMPERATURE AND HUMIDITY

0° C to 35° C (32° F to 95° F) ambient temperature
10% to 90% Relative Humidity (RH)

STORAGE AND TRANSPORT TEMPERATURE

-20° C to 60° C (-4° F to 140° F) at RH 10-90% (non-condensing)

APPROVALS

Directive 73/232/EEC (Low Voltage Directive)
– Standard EN 60950
Directive 89/336/EEC (EMC Directive)
– Standard EN 55022, Class B
– Standard EN 55024
– Standard EN 61000-3-2/-3-3
Directive 1999/5/EEC (R&TTE Directive)
– Standard TBR3
Approved according to UL 60950 and CAN/CSA C22.2 No.60950
Complies with FCC15B Class B

UNIT DIMENSIONS

Height: 16.9"/42.9cm
Width (including footstand): 5.7"/14.5cm
Depth (including footstand): 9.0"/22.8cm
Weight: 7.7 lbs/3.5 kg

* Requires TANDBERG Management Suite 9 or newer

** Optional equipment, must be specified at the time of order. Serial Port replaces ISDN BRI

All specifications subject to change without notice, system specifics may vary.

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MTBF PRODUCT RELIABILITY/MTBF

The predicted reliability is expressed in the expected random Mean Time Between Failures (MTBF) for the electronic components based on the Power On Hours: Power On Hours (POH) > 69 000 hours Useful Life Cycle > 6 years ISO 9001 certificate is available upon request

This is not a medical device. While no currently available technology can completely substitute for the in-person physical examination of an individual patient or specimen, the TANDBERG Intern provides high quality, high resolution, long distance images. When used properly, the TANDBERG Intern can provide a significant and valuable tool for physicians and other medical professionals who are unable to examine a patient or specimen in person. The use and value of the system will vary depending on the specific circumstance of the patient's condition. Ultimately, judgments on how this tool should be used must be in the individual discretion of the physician supervising the patient's care.

TANDBERG

Intern MXP

TANDBERG WORLD HEADQUARTERS

Philip Pedersens vei 20
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 126 126
tandberg@tandberg.com

1212 Avenue of the Americas,
24th Floor
New York, NY USA 10036
Tel: +1 212 692 6500
Fax: +1 212 692 6501
Video: +1 212 692 6535
tandberg@tandberg.com

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